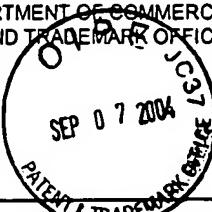


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| SUBSTITUTE FORM PTO-1449<br>(MODIFIED)                |  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE                        |  | ATTY. DOCKET NO.<br>DEME/10C     | SERIAL NO.<br>10/656,490 |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT      |  |  |  | APPLICANT<br>Kovac et al.        |                          |
| (Use several sheets if necessary)<br>(37 CFR 1.98(b)) |  |   |  | FILING DATE<br>September 5, 2003 | GROUP<br>3732            |

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|-----------------------|-----|---------------|---|---|---|------------|----------|-------|----------|----------------------------|-----|-------|
| EXAMINER INITIAL      |     | PATENT NUMBER |   |   |   | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |     |       |
| PL                    | A.A | 3             | 6 | 3 | 8 | 0          | 1        | 3     | 1/1972   | Keller                     | 240 | 41.15 |
|                       | A.B | 3             | 7 | 1 | 2 | 9          | 8        | 4     | 1/1973   | Lienhard                   |     |       |
|                       | A.C | 3             | 7 | 3 | 3 | 4          | 8        | 1     | 05/15/73 | Kuyt                       |     |       |
|                       | A.D | 3             | 8 | 6 | 8 | 5          | 1        | 3     | 2/1975   | Gonser                     | 250 | 504   |
|                       | A.E | 3             | 9 | 7 | 0 | 8          | 5        | 6     | 7/1978   | Mahaffey et al.            | 250 | 493   |
|                       | A.F | 4             | 0 | 4 | 8 | 4          | 9        | 0     | 9/1977   | Troue                      | 240 | 41.35 |
|                       | A.G | 4             | 1 | 1 | 4 | 2          | 7        | 4     | 09/19/78 | Jones                      |     |       |
|                       | A.H | 4             | 1 | 1 | 4 | 9          | 4        | 6     | 09/19/78 | Hoffmeister et al.         |     |       |
| ✓                     | A.I | 4             | 1 | 4 | 9 | 0          | 8        | 6     | 04/10/79 | Nath                       |     |       |
|                       | A.J | 4             | 1 | 8 | 4 | 1          | 9        | 6     | 1/1980   | Moret et al.               | 433 | 29    |
| PL                    | A.K | 4             | 1 | 8 | 5 | 8          | 9        | 1     | 1/1980   | Kaestner                   | 350 | 167   |

| FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS |     |                 |                  |                          |       |          |                      |
|--|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
|  |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
| PL   | A.L | DE 295 11 927   | 02/02/97         | Germany                  |       |          |                      |
|  | A.M | DE 42 11 233    | 01/29/92         | Germany                  | A61C  | 1/08     | No                   |
|  | A.N | EP 0 116 405    | 8/22/84          | European                 |       |          | Yes                  |
| ✓  | A.O | EP 0 266 038    | 10/23/91         | Europe                   | A61N  | 5/06     | N/A                  |
| ✓  | A.P | EP 0 320 080    | 08/04/93         | Europe                   | A61N  | 5/06     | N/A                  |
| PL   | A.Q | EP 0 568 666    | 11/20/92         | Europe                   | A61N  | 5/06     | Claims in English    |

| OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) |     |  |
|---|-----|--|
| PL  | A.R | Burgess, John O. et al., <u>An Evaluation of Four Light-Curing Units Comparing Soft and Hard Curing</u> , Pract. Periodont Aesthet. Dent. 11(1), 125-132, 1999   |
| PL  | A.S | Cao, <u>Dental Curing Light</u> , US2003/O219693, published November 27, 2003  |
| PL  | A.T | Davidson-Kaban, Saliha S. et al., <u>The Effect of Curing Light Variations on Bulk Curing and Wall-to-Wall Quality of Two Types and Various Shades of Resin Composites</u> , Dent. Mater. 13: 344-352, November 1997 |

|          |               |                 |               |
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| EXAMINER | 12/13/2004 PL | DATE CONSIDERED | PL 12/13/2004 |
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|   |  | FILING DATE<br>September 5, 2003                           |  | GROUP<br>3732                |                          |

| U.S. PATENT DOCUMENTS |     |               |   |   |   |            |          |   |          |                 |                            |     |
|-----------------------|-----|---------------|---|---|---|------------|----------|---|----------|-----------------|----------------------------|-----|
| EXAMINER INITIAL      |     | PATENT NUMBER |   |   |   | ISSUE DATE | PATENTEE |   | CLASS    | SUBCLASS        | FILING DATE IF APPROPRIATE |     |
| RL                    | B.A | 4             | 1 | 8 | 6 | 7          | 4        | 8 | 02/05/80 | Schlager        | 128                        | 736 |
|                       | B.B | 4             | 2 | 0 | 9 | 9          | 0        | 7 | 07/01/80 | Tsukada et al.  |                            |     |
|                       | B.C | 4             | 2 | 2 | 9 | 6          | 5        | 8 | 10/21/80 | Gonser          |                            |     |
|                       | B.D | 4             | 2 | 3 | 0 | 4          | 5        | 3 | 10/1980  | Reimers         | 433                        | 29  |
|                       | B.E | 4             | 2 | 3 | 3 | 6          | 4        | 9 | 01/11/80 | Scheer et al.   |                            |     |
|                       | B.F | 4             | 2 | 8 | 0 | 2          | 7        | 3 | 7/1981   | Vincent         |                            |     |
|                       | B.G | 4             | 2 | 9 | 8 | 8          | 0        | 6 | 11/1981  | Herold          | 250                        | 504 |
|                       | B.H | 4             | 3 | 3 | 7 | 7          | 5        | 9 | 7/1982   | Popovich et al. | 126                        | 438 |
|                       | B.I | 4             | 3 | 8 | 5 | 3          | 4        | 4 | 5/1983   | Gonser          | 362                        | 32  |
| ✓                     | B.J | 4             | 3 | 9 | 1 | 5          | 8        | 8 | 07/05/83 | Matsui          |                            |     |
| RL                    | B.K | 4             | 3 | 9 | 8 | 8          | 8        | 5 | 8/1983   | Loge et al.     | 433                        | 126 |

| FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS |     |                 |                  |                          |       |          |                      |
|--|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
|  |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
| RL   | B.L | EP 0 672 435    | 09/20/95         | Europe                   | A61N  | 5/06     | N/A                  |
|  | B.M | EO 0 678 282    | 10/25/95         | Europe                   |       |          |                      |
|  | B.N | EP 0 709 698    | 05/01/96         | Europe                   |       |          | N/A                  |
|  | B.O | EP 0 736 307    | 10/09/96         | Europe                   | A61N  | 5/06     | N/A                  |
| ✓  | B.P | EP 0 740 567    | 11/06/02         | Europe                   | A61N  | 5/06     | N/A                  |
| RL   | B.Q | EP 0 755 662    | 07/04/96         | Europe                   | A61C  | 19/00    | No (in German)       |

| OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) |     |  |  |  |  |  |  |
|---|-----|--|--|--|--|--|--|
| EXAMINER  |     | DATE CONSIDERED  |  |  |  |  |  |
| RL  | B.R | Elbofner et al., <u>Lighting Fixture for a Medical or Dental Handpiece</u> , US2001/0007739, U.S. Patent Application Publication, published 7/12/01                              |  |  |  |  |  |
| ✓   | B.S | , <u>European Search Report</u> , February 27, 2004  |  |  |  |  |  |
| RL  | B.T | Feltzer, A. J. et al., <u>Influence of Light Intensity on Polymerization Shrinkage and Integrity of Restoration-Cavity Interface</u> , Eur. J. Oral Sciences, 103: 322-326, 1995 |  |  |  |  |  |
| EXAMINER  |     | DATE CONSIDERED  |  |  |  |  |  |
| RL  |     | 12/18/2004   |  |  |  |  |  |

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|   |  | FILING DATE<br>September 5, 2003                           |  | GROUP<br>3732                |                          |

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| EXAMINER INITIAL |     | PATENT NUMBER |   |   |   |   |   |   | ISSUE DATE | PATENTEE        |  | CLASS    | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|-----|---------------|---|---|---|---|---|---|------------|-----------------|--|----------|----------|----------------------------|
| <i>RL</i>        | C.A | 4             | 4 | 1 | 2 | 1 | 3 | 4 | 10/25/83   | Herold et al.   |  | <i>2</i> |          |                            |
|                  | C.B | 4             | 4 | 4 | 5 | 8 | 5 | 8 | 05/01/84   | Johnson         |  | <i>2</i> |          |                            |
|                  | C.C | 4             | 4 | 5 | 0 | 1 | 3 | 9 | 5/22/84    | Bussiere et al. |  | 422      | 186.3    |                            |
|                  | C.D | 4             | 6 | 1 | 0 | 6 | 3 | 0 | 09/09/86   | Betush          |  | <i>2</i> |          |                            |
|                  | C.E | 4             | 6 | 6 | 6 | 4 | 0 | 6 | 5/1987     | Kanca, III      |  | 433      | 229      |                            |
|                  | C.F | 4             | 5 | 7 | 3 | 3 | 5 | 3 | 06/16/87   | Nevin           |  | <i>2</i> |          |                            |
|                  | C.G | 4             | 7 | 1 | 6 | 2 | 9 | 6 | 12/29/87   | Bussiere et al. |  | <i>2</i> |          |                            |
|                  | C.H | 4             | 7 | 2 | 9 | 0 | 7 | 6 | 3/1988     | Masami et al.   |  | 362      | 235      |                            |
|                  | C.I | 4             | 7 | 5 | 7 | 3 | 8 | 1 | 07/12/88   | Cooper et al.   |  | <i>2</i> |          |                            |
| <i>RL</i>        | C.J | 4             | 7 | 9 | 2 | 6 | 9 | 2 | 12/20/88   | Herold et al.   |  | <i>2</i> |          |                            |
| <i>RL</i>        | C.K | 4             | 8 | 1 | 0 | 1 | 9 | 4 | 3/1989     | Snedden         |  | 433      | 91       |                            |

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

|           |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS    | SUBCLASS | TRANSLATION (YES/NO) |
|-----------|-----|-----------------|------------------|--------------------------|----------|----------|----------------------|
| <i>RL</i> | C.L | EP 0 780 101    | 06/25/97         | Europe                   | A61C     | 7/16     | N/A                  |
|           | C.M | EP 0 780 103    | 06/25/97         | Europe                   | A61C     | 19/00    | No (in German)       |
|           | C.N | EP 0 830 850    | 03/25/98         | Europe                   | <i>2</i> |          |                      |
|           | C.O | EP 0 830 851    | 05/02/02         | Europe                   | A61C     | 5/02     | N/A                  |
|           | C.P | EP 0 830 852    | 05/06/02         | Europe                   | A61C     | 8/02     | N/A                  |
| <i>RL</i> | C.Q | EP 0 879 582    | 11/25/98         | Europe                   | A61C     | 19/00    | No (in German)       |

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|           |     |  |
|-----------|-----|--|
| <i>RL</i> | C.R | Gemunder et al., <u>Photo Curing Light System Having Modulated Light Intensity Control</u> , US2002/0014864, U.S. Patent Application Publication, published 2/7/02 |
| <i>RL</i> | C.S | Gordon et al., U.S. Patent Application Publication No. US 2002/0133970 A1, Pub. Date: Sep. 26, 2002  |
| <i>RL</i> | C.T | Hooker et al., <u>Optical Waveguide Concentrator and Illuminating Device</u> , US2002/0051367, U.S. Patent Application Publication, published 5/2/02               |

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| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(Use several sheets if necessary)<br><br>(37 CFR 1.98(b)) |  | APPLICANT<br>Kovac et al.                                  |  |                              |                          |
|   |  | FILING DATE<br>September 5, 2003                           |  | GROUP<br>3732                |                          |

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |     | PATENT NUMBER |   |   |   |   |   | ISSUE DATE | PATENTEE |                 | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|-----|---------------|---|---|---|---|---|------------|----------|-----------------|-------|----------|----------------------------|
| RL               | D.A | 4             | 8 | 2 | 6 | 4 | 3 | 1          | 5/1989   | Fujimura et al. | 433   | 29       |                            |
| ✓                | D.B | 4             | 8 | 3 | 6 | 7 | 8 | 2          | 06/06/89 | Gonser          |       |          |                            |
|                  | D.C | 4             | 8 | 3 | 9 | 5 | 6 | 6          | 06/13/89 | Herold et al.   |       |          |                            |
|                  | D.D | 4             | 8 | 4 | 6 | 5 | 4 | 6          | 7/1989   | Cuda            | 350   | 96.24    |                            |
|                  | D.E | 4             | 8 | 8 | 8 | 4 | 8 | 9          | 12/1989  | Bryan           | 250   | 504      |                            |
|                  | D.F | 4             | 9 | 3 | 5 | 6 | 6 | 5          | 6/1990   | Murata          | 313   | 500      |                            |
|                  | D.G | 4             | 9 | 3 | 6 | 8 | 0 | 8          | 6/1990   | Lee             | 445   | 24       |                            |
|                  | D.H | 4             | 9 | 4 | 8 | 2 | 1 | 5          | 08/14/90 | Friedman        |       |          |                            |
| ✓                | D.I | 4             | 9 | 6 | 3 | 7 | 9 | 8          | 10/1990  | McDermott       | 315   | 312      |                            |
| ✓                | D.J | 4             | 9 | 9 | 9 | 3 | 1 | 0          | 3/1991   | Kim             | 437   | 51       |                            |
| RL               | D.K | 5             | 0 | 0 | 3 | 4 | 3 | 4          | 3/1991   | Gonser et al.   | 362   | 32       |                            |

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

|    |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
|----|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| RL | D.L | EP 0 880 945    | 12/02/98         | Europe                   | A61C  | 19/00    | No (in German)       |
| ✓  | D.M | EP 0 884 025    | 12/16/98         | Europe                   | A61C  | 1/08     | N/A                  |
| ✓  | D.N | EP 0 885 025    | 12/16/98         | Europe                   | A61C  | 1/08     | N/A                  |
| ✓  | D.O | EP 0 998 880    | 05/10/00         | Europe                   | A61C  | 1/08     | No (in German)       |
| ✓  | D.P | EP 1 031 326    | 08/30/00         | Europe                   | A61C  | 19/00    | No (in French)       |
| RL | D.Q | EP 1 090 607    | 04/11/01         | Europe                   | A61C  | 19/00    | N/A                  |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|    |     |  |
|----|-----|--|
| RL | D.R | Kanca, III, John and Suh, Byoung I., <u>Pulse Activation: Reducing Resin-Based Composite Contraction Stresses at the Enamel Cavo-surface Margins</u> , Am. J. of Dentistry, 12(3), 107-112, 1999   |
| RL | D.S | Kato, Hiromasa, <u>Relationship Between the Velocity of Polymerization and Adaptation to Dentin Cavity Wall of Light-Cured Composite</u> , Dental Materials J. 6(1): 32-37, 1987   |
| RL | D.T | Koran, Peter and Kurschner, Ralf, <u>Effect of Sequential versus Continuous Irradiation of a Light-Cured Resin Composite on Shrinkage, Viscosity, Adhesion, and Degree of Polymerization</u> , Am. J. of Dentistry, 11, No. 1, 17-22, 1998 |

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| RL       | 12/13/2004      |

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|  |     | FILING DATE<br>September 5, 2003  |   |                  |   | GROUP<br>3732                     |          |       |                              |                          |                            |      |  |
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| <i>PL</i>  | E.A | 5   | 0 | 0                | 7 | 8                                 | 3        | 7     | 04/16/91                     | Werly                    | <i>PL</i>                  |      |  |
|  | E.B | 5   | 0 | 1                | 7 | 1                                 | 4        | 0     | 05/21/91                     | Ascher                   | <i>PL</i>                  |      |  |
|  | E.C | 5   | 0 | 2                | 9 | 9                                 | 5        | 7     | 07/09/91                     | Hood                     | 350                        | 96.2 |  |
|  | E.D | 5   | 1 | 1                | 5 | 7                                 | 6        | 1     | 05/26/92                     | Hood                     | 118                        | 641  |  |
|  | E.E | 5   | 1 | 4                | 7 | 2                                 | 0        | 4     | 9/1992                       | Patten et al.            | 433                        | 229  |  |
|  | E.F | 5   | 1 | 5                | 0 | 0                                 | 1        | 6     | 9/1992                       | Sawase et al.            | 315                        | 294  |  |
|  | E.G | 5   | 1 | 6                | 1 | 8                                 | 7        | 9     | 11/1992                      | McDermott                | 362                        | 206  |  |
|  | E.H | 5   | 1 | 6                | 2 | 6                                 | 9        | 6     | 11/1992                      | Goodrich                 | 313                        | 511  |  |
| <i>PL</i>  | E.I | 5   | 1 | 7                | 3 | 8                                 | 1        | 0     | 12/22/92                     | Yamakawa                 | <i>PL</i>                  |      |  |
|  | E.J | 5   | 1 | 9                | 8 | 6                                 | 7        | 8     | 03/30/93                     | Oppawsky                 | <i>PL</i>                  |      |  |
| <i>PL</i>  | E.K | 5   | 2 | 0                | 1 | 6                                 | 5        | 5     | 4/1993                       | Friedman                 | 433                        | 29   |  |
| FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS   |     |   |   |                  |   |                                   |          |       |                              |                          |                            |      |  |
|  |     | DOCUMENT NUMBER   |   | PUBLICATION DATE |   | COUNTRY OR PATENT OFFICE          |          | CLASS | SUBCLASS                     | TRANSLATION (YES/NO)     |                            |      |  |
| <i>PL</i>  | E.L | EP 1 090 608  |   | 04/11/01         |   | Europe                            |          | A61C  | 19/00                        | N/A                      |                            |      |  |
|  | E.M | EP 1 093 765  |   | 04/25/01         |   | Europe                            |          | A61C  | 1/08                         | N/A                      |                            |      |  |
|  | E.N | EP 1 103 232  |   | 05/30/01         |   | Europe                            |          | A61C  | 19/00                        | N/A                      |                            |      |  |
|  | E.O | EP 1 112 721  |   | 07/04/01         |   | Europe                            |          | A61C  | 1/08                         | No (in German)           |                            |      |  |
| <i>PL</i>  | E.P | EP 1 138 276  |   | 10/04/01         |   | Europe                            |          | A61C  | 19/00                        | N/A                      |                            |      |  |
| <i>PL</i>  | E.Q | EP 1 138 349  |   | 10/04/01         |   | Europe                            |          | A61N  | 5/06                         | N/A                      |                            |      |  |
| OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)  |     |   |   |                  |   |                                   |          |       |                              |                          |                            |      |  |
| <i>PL</i>  | E.R | Lieb et al., <u>Light-Emitting Handpiece for Curing Photopolymerizable Resins</u> , US2003/O036031, published February 20, 2003                           |   |                  |   |                                   |          |       |                              |                          |                            |      |  |
| <i>PL</i>  | E.S | LumiLeds Lighting LLC, <u>Concept Evaluation Data Luxeon™ Star 5-Watt, Luxeon™ 5-Watt Preliminary Target Data Sheet</u> , Publication No. JP10 (Jan 2002) |   |                  |   |                                   |          |       |                              |                          |                            |      |  |
| <i>PL</i>  | E.T | LumiLeds Lighting LLC, <u>LED Application Note Dental Light Curing</u> , LumiLeds Lighting Publication No. XXX(03.01), Copyright© 2000                    |   |                  |   |                                   |          |       |                              |                          |                            |      |  |
| EXAMINER <i>PL</i>   |     |   |   |                  |   | DATE CONSIDERED <i>12/18/2004</i> |          |       |                              |                          |                            |      |  |
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|------------------|-----|---------------|---|---|---|---|---|---|------------|-------------------|-------|----------|----------------------------|
| RL               | F.A | 5             | 2 | 3 | 3 | 2 | 8 | 3 | 08/03/93   | Kennedy           | 320   | 13       |                            |
|                  | F.B | 5             | 2 | 4 | 2 | 6 | 0 | 2 | 09/07/93   | Richardson et al. | 210   | 745      |                            |
|                  | F.C | 5             | 2 | 6 | 5 | 7 | 9 | 2 | 11/1993    | Harrah et al.     | 228   | 6.2      |                            |
|                  | F.D | 5             | 2 | 7 | 8 | 6 | 2 | 9 | 01/11/94   | Schlager et al.   | 356   | 313      |                            |
|                  | F.E | 5             | 2 | 8 | 3 | 4 | 2 | 5 | 2/1994     | Imamura           | 250   | 208.1    |                            |
|                  | F.F | 5             | 2 | 9 | 0 | 1 | 6 | 9 | 3/1994     | Friedman et al.   | 433   | 29       |                            |
|                  | F.G | 5             | 3 | 0 | 2 | 1 | 2 | 4 | 04/12/94   | Lansing et al.    |       |          |                            |
|                  | F.H | 5             | 3 | 1 | 2 | 2 | 4 | 9 | 05/13/94   | Kennedy           |       |          |                            |
|                  | F.I | 5             | 3 | 1 | 6 | 4 | 7 | 3 | 5/31/94    | Hare              | 433   | 29       |                            |
| U                | F.J | 5             | 3 | 2 | 8 | 3 | 6 | 8 | 07/12/94   | Lansing et al.    |       |          |                            |
| RL               | F.K | 5             | 3 | 7 | 1 | 8 | 2 | 6 | 12/6/94    | Friedman          | 385   | 115      |                            |

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|    |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS       | SUBCLASS | TRANSLATION (YES/NO) |
|----|-----|-----------------|------------------|--------------------------|-------------|----------|----------------------|
| RL | F.L | EP 1 206 923    | 05/22/02         | Europe                   | A61C        | 19/00    | N/A                  |
|    | F.M | EP 1 228 738    | 08/07/02         | Europe                   | A61C        | 19/000   | No (in German)       |
|    | F.N | GB 2 212 010    | 7/1989           | Great Britain            |             |          |                      |
|    | F.O | GB 2 329 756    | 03/31/99         | GB                       |             |          |                      |
| U  | F.P | JP 2 080 522    | 11/15/99         | Japan                    |             |          |                      |
| RL | F.Q | JP 410033573    | 02/10/98         | Japan                    | A61C01<br>9 | 00       | Abstract only        |

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|    |     |   |
|----|-----|---|
| RL | F.R | LumiLeds Lighting LLC, <u>Application Bulletin AB XXX, Luxeon™ Data Sheet, Publication No. xxxx-xxxx</u>                                |
| RL | F.S | LumiLeds Lighting LLC, <u>Luxeon™ Power Light Sources of the Future, January 2001 - Mike Holt</u>                                       |
| RL | F.T | LumiLeds Lighting LLC, <u>Lumen Maintenance of White Luxeon™ Power Light Sources, Application Brief AB07, LumiLeds Lighting, US LLC</u> |

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|----------|----|-----------------|
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| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(Use several sheets if necessary)<br>(37 CFR 1.98(b)) |  | APPLICANT<br>Kovac et al.                                  |  |                              |                          |
|   |  | FILING DATE<br>September 5, 2003                           |  | GROUP<br>3732                |                          |

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|------------------|-----|---------------|---|---|---|---|---|------------|----------|----------------|-------|----------|----------------------------|
| RL               | G.A | 5             | 3 | 7 | 3 | 1 | 1 | 4          | 12/1994  | Kondo et al.   | 174   | 268      |                            |
|                  | G.B | 5             | 4 | 2 | 0 | 7 | 6 | 8          | 5/30/95  | Kennedy        | 362   | 119      |                            |
|                  | G.C | 5             | 4 | 5 | 7 | 6 | 1 | 1          | 10/10/95 | Verderber      |       |          |                            |
|                  | G.D | 5             | 4 | 7 | 1 | 1 | 2 | 9          | 11/28/95 | Mann           | 320   | 21       |                            |
|                  | G.E | 5             | 4 | 8 | 7 | 6 | 6 | 2          | 01/30/96 | Kipke et al.   | 433   | 37       |                            |
|                  | G.F | 5             | 5 | 2 | 1 | 3 | 9 | 2          | 05/28/96 | Kennedy et al. | 250   | 492.1    |                            |
|                  | G.G | 5             | 5 | 3 | 0 | 6 | 3 | 2          | 06/25/96 | Shikano et al. |       |          |                            |
|                  | G.H | 5             | 5 | 3 | 5 | 2 | 3 | 0          | 7/1996   | Abe            | 372   | 43       |                            |
|                  | G.I | 5             | 6 | 1 | 6 | 1 | 4 | 1          | 04/01/97 | Cipolla        |       |          |                            |
|                  | G.J | 5             | 6 | 1 | 7 | 4 | 9 | 2          | 4/1997   | Beach et al.   | 385   | 33       |                            |
| RL               | G.K | 5             | 6 | 3 | 4 | 7 | 1 | 1          | 6/1997   | Kennedy et al. | 362   | 119      |                            |

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|    |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
|----|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| RL | G.L | JP 6-30275      | 1994             | Japan                    |       |          | No                   |
|    | G.M | JP 8-141001     | 1996             | Japan                    |       |          | Yes                  |
|    | G.N | JP 8-194786     | 1997             | Japan                    |       |          | Yes                  |
|    | G.O | JP 9-10238      | 1997             | Japan                    |       |          | Yes                  |
|    | G.P | WO 00/13608     | 03/16/00         | International            | A61C  | 18/00    | N/A                  |
| RL | G.Q | WO 00/14012     | 03/01/01         | International            | A61N  | 5/06     | N/A                  |

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|----|-----|---|
| RL | G.R | LumiLeds Lighting LLC, <u>Application Note 1149-5, Secondary Optics Design Considerations for Super Flux LEDs</u> , Copyright © 2000 LumiLeds Lighting, Obsoletes Publication No. 5968-1215E, Publication No. AN06 (3/00) |
| RL | G.S | Luxeon Dental Technical Data, <u>Power Light Source</u> , April, 2002   |
| RL | G.T | MacDougald et al., U.S. Patent Application Publication No. US 2003/0015667 A1, Pub. Date: Jan. 23, 2003   |

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| RL       | 12/13/2004      |

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| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(Use several sheets if necessary)<br><br>(37 CFR 1.98(b)) |  |  |  |  |  |  |  | APPLICANT<br>Kovac et al.        |                          |
|   |  |  |  |  |  |  |  | FILING DATE<br>September 5, 2003 | GROUP<br>3732            |

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|------------------|-----|---------------|---|---|---|---|---|------------|----------|-----------------|----------|----------------------------|
| RL               | H.A | 5             | 6 | 6 | 0 | 4 | 6 | 1          | 8/1997   | Ignatius et al. | 362      | 241                        |
|                  | H.B | 5             | 6 | 6 | 4 | 0 | 4 | 2          | 09/02/97 | Kennedy         | 385      | 136                        |
|                  | H.C | 5             | 6 | 9 | 8 | 8 | 6 | 6          | 12/1997  | Dolron et al.   | 257      | 99                         |
|                  | H.D | 5             | 7 | 0 | 7 | 1 | 3 | 9          | 1/1998   | Haltz           | 362      | 231                        |
|                  | H.E | 5             | 7 | 1 | 1 | 6 | 6 | 5          | 1/1998   | Adam et al.     | 433      | 9                          |
|                  | H.F | 5             | 7 | 4 | 7 | 3 | 6 | 3          | 5/1998   | Wei et al.      | 438      | 5                          |
|                  | H.G | 5             | 7 | 5 | 9 | 0 | 3 | 2          | 06/02/98 | Bartel          |          |                            |
|                  | H.H | 5             | 8 | 0 | 3 | 7 | 2 | 9          | 09/08/97 | Tsimerman       |          |                            |
|                  | H.I | 5             | 8 | 5 | 7 | 7 | 6 | 7          | 01/2/99  | Hochstein       |          |                            |
|                  | H.J | 5             | 9 | 1 | 2 | 4 | 7 | 0          | 06/15/99 | Eibofner et al. |          |                            |
| RL               | H.K | 5             | 9 | 2 | 8 | 2 | 2 | 0          | 07/27/99 | Shimoji         |          |                            |

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|    |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
|----|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| RL | H.L | WO 00/15296     | 03/23/00         | International            | A61N  | 5/00     | N/A                  |
|    | H.M | WO 00/41726     | 07/20/00         | International            | A61K  | 41/00    | N/A                  |
|    | H.N | WO 00/41767     | 07/20/00         | International            | A61N  | 5/06     | N/A                  |
|    | H.O | WO 00/43067     | 07/27/00         | International            | A61N  | 5/01     | N/A                  |
|    | H.P | WO 00/43069     | 07/27/00         | International            | A61N  | 5/06     | N/A                  |
| RL | H.Q | WO 00/43068     | 07/27/00         | International            | A61N  | 5/01     | N/A                  |

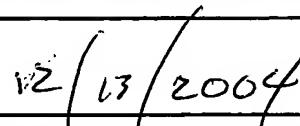
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|----|-----|--|
| RL | H.R | Mayes, Joe H., <u>Curing Lights: An Overview</u> , Unknown, pg 15-17   |
| RL | H.S | Mehl, A. et al., <u>Physical Properties and Gap Formation of Light-Cured Composites With and Without 'Softstart-Polymerization'</u> , J. of Dentistry, 25, 321-330, 1997 |
| RL | H.T | Ostler et al., <u>Light Emitting Diode Light Source for Curing Dental Composites</u> , U.S. Patent Application 2001/46652, published November 29, 2001                   |

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|  |  |  |  |  |  |  |  | APPLICANT<br>Kovac et al.        |                          |
|  |  |  |  |  |  |  |  | FILING DATE<br>September 5, 2003 | GROUP<br>3732            |
| (37 CFR 1.98(b))                       |  | (Use several sheets if necessary)                          |  |  |  |  |  |                                  |                          |

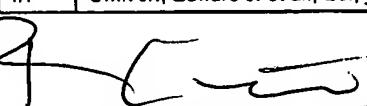
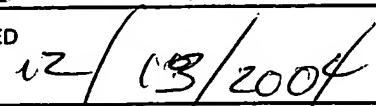
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|------------------|-----|---------------|---|---|---|---|------------|--------------------|-------|----------|----------------------------|
| RC               | I.A | 5             | 9 | 7 | 5 | 8 | 9          | Sullivan           |       |          |                            |
|                  | I.B | 6             | 0 | 0 | 8 | 2 | 6          | Ostler et al.      | 522   | 4        |                            |
|                  | I.C | 6             | 0 | 3 | 3 | 2 | 2          | Narusawa et al.    |       |          |                            |
|                  | I.D | 6             | 0 | 4 | 5 | 2 | 4          | Hochstein          |       |          |                            |
|                  | I.E | 6             | 0 | 4 | 6 | 4 | 6          | Mertins            |       |          |                            |
|                  | I.F | 6             | 0 | 6 | 5 | 9 | 6          | Rechmann           |       |          |                            |
|                  | I.G | 6             | 0 | 6 | 8 | 4 | 7          | Senn et al.        |       |          |                            |
|                  | I.H | 6             | 0 | 7 | 7 | 0 | 7          | Jacob              |       |          |                            |
|                  | I.I | 6             | 0 | 8 | 6 | 3 | 6          | Levy               |       |          |                            |
| ✓                | I.J | 6             | 0 | 9 | 5 | 8 | 1          | Senn et al         |       |          | 03/01/1999                 |
| RC               | I.K | 6             | 1 | 0 | 2 | 6 | 9          | Osterwalder et al. |       |          |                            |

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|    |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
|----|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| RC | I.L | WO 00/45733     | 08/10/00         | International            | A61C  | 19/00    | N/A                  |
|    | I.M | WO 00/67048     | 11/09/00         | International            | B02B  | A2       | N/A                  |
|    | I.N | WO 00/67660     | 11/16/00         | International            | A61C  | 13/15    | N/A                  |
|    | I.O | WO 00/01464     | 01/13/00         | International            | B01D  | 46/00    | N/A                  |
|    | I.P | WO 00/02491     | 01/20/00         | International            | A61B  | 17/36    | N/A                  |
| RC | I.Q | WO 01/19280     | International    | International            | A61C  | 13/15    | No (in German)       |

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|--|-----|---|
| RC   | I.R | Sakaguchi, Ronald L. and Berge, Hong Xu, <u>Reduced Light Energy Density Decreases Post-Gel Contraction While Maintaining Degree of Conversion in Composites</u> , J. of Dentistry, 26, 695-700, 1998 |
| RC   | I.S | Schlager, Kenneth J., Ignatius, Ronald W., <u>An LED-Array Light Source for Medical Therapy</u> , SPIE Vol. 1892 Medical Lasers and Systems II (1993) p. 26-35.                                       |
| RC   | I.T | Swift Jr., Edward J. et al., Ed., <u>Contemporary Photocuring Issues, Part II</u> , J. Esthetic Dentistry, 12 (1), 50-57, 2000  |
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|---------------------|-----|---------------|---|---|---|---|---------------|----------|----------|-----------------|----------|-------------------------------|
| RL                  | J.A | 6             | 1 | 2 | 3 | 5 | 4             | 5        | 09/26/00 | Eggler et al.   |          |                               |
|                     | J.B | 6             | 1 | 5 | 5 | 8 | 2             | 3        | 12/05/00 | Nagel           |          |                               |
|                     | J.C | 6             | 1 | 5 | 9 | 0 | 0             | 5        | 12/12/00 | Herold et al.   |          |                               |
|                     | J.D | 6             | 1 | 6 | 1 | 9 | 3             | 7        | 12/19/00 | Rosenstatter    |          |                               |
|                     | J.E | 6             | 1 | 6 | 8 | 4 | 3             | 1        | 01/02/01 | Narusawa et al. |          |                               |
|                     | J.F | 6             | 1 | 7 | 1 | 1 | 0             | 5        | 01/09/01 | Sarmadi         |          |                               |
|                     | J.G | 6             | 1 | 8 | 6 | 7 | 8             | 6        | 02/13/01 | Trushkowsky     |          |                               |
|                     | J.H | 6             | 1 | 9 | 3 | 5 | 1             | 0        | 02/27/01 | Tsimerman       |          |                               |
|                     | J.I | 6             | 2 | 0 | 0 | 1 | 3             | 4        | 3/13/01  | Kovac, et al.   | 433      | 29                            |
| RL                  | J.J | 6             | 0 | 2 | 8 | 7 | 8             | 8        | 03/27/01 | Nosov           |          |                               |
| RL                  | J.K | 6             | 2 | 2 | 0 | 7 | 2             | 2        | 04/24/01 | Begemann        |          |                               |

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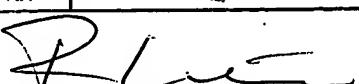
|    |     | DOCUMENT<br>NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION<br>(YES/NO) |
|----|-----|--------------------|---------------------|-----------------------------|-------|----------|-------------------------|
| RL | J.L | WO 01/24724        | 04/12/01            | International               | A61C  | 3/00     | N/A                     |
|    | J.M | WO 01/54770        | 08/02/01            | International               | A61N  | 5/06     | N/A                     |
|    | J.N | WO 01/60280        | 08/23/01            | International               | A61C  | 13/15    | Abstract only           |
|    | J.O | WO 01/64129        | 09/07/01            | International               | A61C  | 19/00    | N/A                     |
|    | J.P | WO 01/68035        | 09/20/01            | International               | A61K  | 6/00     | N/A                     |
| RL | J.Q | WO 01/69691        | 09/20/01            | International               | H01L  | 31/12    | N/A                     |

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|----|-----|---|
| RL | J.R | Tarle, Z. et al., <u>The Effect of the Photopolymerization Method on the Quality of Composite Resin Samples</u> , J. of Oral Rehab. 25: 436-442, 1998 |
| ↓  | J.S | TIR Technologies, Inc., <u>Miniaturized TIR lenses for Light Emitting Diodes</u> , TIR Technical Publication, pgs. 1-14                               |
| RL | J.T | Uno, Shigeru and Asmussen, Erik, <u>Marginal Adaptation of a Restorative Resin Polymerized at Reduced Rate</u> , Scand J. Dent. Res. 1991; 99: 440-4  |

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| RL   |   | K.A  | 6 | 2                   | 8 | 0                           | 1        | 8                                | 7                        | 08/28/01                | Stone                         |  |
|  |   | K.B  | 6 | 2                   | 8 | 0                           | 1        | 8                                | 8                        | 08/28/01                | Ross                          |  |
|  |   | K.C  | 6 | 3                   | 3 | 1                           | 1        | 1                                | 1                        | 12/18/01                | Cao                           |  |
|  |   | K.D  | 6 | 3                   | 4 | 5                           | 9        | 8                                | 2                        | 2/12/02                 | Meyer                         |  |
|  |   | K.E  | 6 | 3                   | 7 | 9                           | 1        | 4                                | 9                        | 04/30/02                | Franetzki                     |  |
|  |   | K.F  | 6 | 4                   | 1 | 9                           | 4        | 8                                | 3                        | 07/16/02                | Adam et al.                   |  |
|  |   | K.G  | 6 | 4                   | 3 | 9                           | 8        | 8                                | 8                        | 08/27/02                | Boutoussov et al.             |  |
| RL   |   | K.H  | 6 | 4                   | 6 | 8                           | 0        | 7                                | 7                        | 10/22/02                | Melikechi et al.              |  |
|  |   | K.I  |   |                     |   |                             |          |                                  |                          |                         |                               |  |
|  |   | K.J  |   |                     |   |                             |          |                                  |                          |                         |                               |  |
|  |   | K.K  |   |                     |   |                             |          |                                  |                          |                         |                               |  |
| FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS   |   |  |   |                     |   |                             |          |                                  |                          |                         |                               |  |
|  |   | DOCUMENT<br>NUMBER   |   | PUBLICATION<br>DATE |   | COUNTRY OR<br>PATENT OFFICE |          | CLASS                            | SUBCLASS                 | TRANSLATION<br>(YES/NO) |                               |  |
| RL   | K.L   | WO 01/03770  |   | 01/18/01            |   | International               |          | A61N                             | 5/00                     | N/A                     |                               |  |
| 1  | K.M   | WO 02/11640  |   | 02/14/02            |   | International               |          |                                  |                          | N/A                     |                               |  |
| 1  | K.N   | WO 02/32505  |   | 04/25/02            |   | International               |          | A61N                             | 5/06                     | N/A                     |                               |  |
| 7  | K.O   | WO 02/33312  |   | 04/25/02            |   | International               |          | F21V                             |                          | N/A                     |                               |  |
| 7  | K.P   | WO 02/49721  |   | 06/27/02            |   | International               |          | A61N                             | 5/06                     | N/A                     |                               |  |
| RL   | K.Q   | WO 02/056787   |   | 07/25/02            |   | International               |          |                                  |                          |                         |                               |  |
| OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)  |   |  |   |                     |   |                             |          |                                  |                          |                         |                               |  |
|  |   | K.R  |   |                     |   |                             |          |                                  |                          |                         |                               |  |
|  |   | KS   |   |                     |   |                             |          |                                  |                          |                         |                               |  |
|  |   | K.T  |   |                     |   |                             |          |                                  |                          |                         |                               |  |
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| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(Use several sheets if necessary)<br><br>(37 CFR 1.98(b)) |  |  |  | APPLICANT<br>Kovac et al.        |                          |
|   |  |  |  | FILING DATE<br>September 5, 2003 | GROUP<br>3732            |

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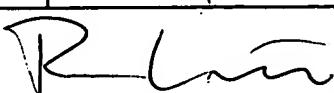
| EXAMINER INITIAL |     | PATENT NUMBER | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|-----|---------------|------------|----------|-------|----------|----------------------------|
|                  | L.A |               |            |          |       |          |                            |
|                  | L.B |               |            |          |       |          |                            |
|                  | L.C |               |            |          |       |          |                            |
|                  | L.D |               |            |          |       |          |                            |
|                  | L.E |               |            |          |       |          |                            |
|                  | L.F |               |            |          |       |          |                            |
|                  | L.G |               |            |          |       |          |                            |
|                  | L.H |               |            |          |       |          |                            |
|                  | L.I |               |            |          |       |          |                            |
|                  | L.J |               |            |          |       |          |                            |
|                  | L.K |               |            |          |       |          |                            |

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|     |     | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
|-----|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| PL  | L.L | WO 02/06723     | 01/24/02         | International            | E21S  | 8/00     | No (in German)       |
|     | L.M | WO 02/069839    | 09/12/02         | International            |       |          |                      |
|     | L.N | WO 02/080808    | 10/17/02         | International            |       |          |                      |
|     | L.O | WO 83/01311     | 04/14/83         | International            | G02B  | 27/10    |                      |
| Q   | L.P | WO 95/07731     | 03/23/95         | International            |       |          |                      |
| PLC | L.Q | WO 99/35995     | 07/22/99         | International            |       |          |                      |

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| L.R |
| L.S |
| L.T |

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| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(Use several sheets if necessary)<br>(37 CFR 1.98(b)) |  | APPLICANT<br>Kovac et al.                                  |  |                              |                          |
|   |  | FILING DATE<br>September 5, 2003                           |  | GROUP<br>3732                |                          |

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|------------------|-----|---------------|------------|----------|-------|----------|----------------------------|
|                  | M.A |               |            |          |       |          |                            |
|                  | M.B |               |            |          |       |          |                            |
|                  | M.C |               |            |          |       |          |                            |
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|                  | M.G |               |            |          |       |          |                            |
|                  | M.H |               |            |          |       |          |                            |
|                  | M.I |               |            |          |       |          |                            |
|                  | M.J |               |            |          |       |          |                            |
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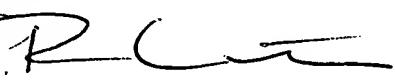
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|----|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| RC | M.L | WO 00/41768     | 07/20/00         | International            | A61N  | 5/06     | N/A                  |
| 1  | M.M | WO 02/09610     | 02/07/02         | International            | A61B  | 18/24    | N/A                  |
| 1  | M.N | WO 84/04463     | 11/22/84         | International            | A61N  | 5/06     |                      |
| 1  | M.O | WO 92/02275     | 02/20/92         | International            | A61N  | 5/06     |                      |
| 1  | M.P | WO 93/09847     | 5/1993           | International            |       |          | N/A                  |
| RC | M.Q | WO 93/21842     | 11/11/93         | International            | A61B  | 17/36    | N/A                  |

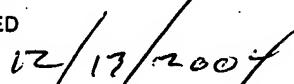
## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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| (Use several sheets if necessary)<br>(37 CFR 1.98(b)) |  |  |  | FILING DATE<br>September 5, 2003 | GROUP<br>3732            |

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|------------------|------|---------------|------------|----------|-------|----------|----------------------------|
|                  | N.A. |               |            |          |       |          |                            |
|                  | N.B. |               |            |          |       |          |                            |
|                  | N.C. |               |            |          |       |          |                            |
|                  | N.D. |               |            |          |       |          |                            |
|                  | N.E. |               |            |          |       |          |                            |
|                  | N.F. |               |            |          |       |          |                            |
|                  | N.G. |               |            |          |       |          |                            |
|                  | N.H. |               |            |          |       |          |                            |
|                  | N.I. |               |            |          |       |          |                            |
|                  | N.J. |               |            |          |       |          |                            |
|                  | N.K. |               |            |          |       |          |                            |

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|----|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| RC | N.L | WO95/19810      | 07/25/95         | International            | A61N  | 5/06     | N/A                  |
|    | N.M | WO 95/26217     | 10/05/95         | International            | A61N  | 5/06     | N/A                  |
|    | N.N | WO/97/36552     | 10/09/97         | International            | A61C  | 13/15    | N/A                  |
|    | N.O | WO 97/37722     | 10/16/97         | International            | A61N  | 5/06     | Abstract only        |
|    | N.P | WO 97/46279     | 12/11/97         | International            | A61N  | 5/06     | N/A                  |
| RC | N.Q | WO 97/46280     | 12/11/97         | International            | A61N  | 5/06     | N/A                  |

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| N.R. |
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|------------------|-----|---------------|--|------------|----------|-------|----------|----------------------------|
|                  | O.A |               |  |            |          |       |          |                            |
|                  | O.B |               |  |            |          |       |          |                            |
|                  | O.C |               |  |            |          |       |          |                            |
|                  | O.D |               |  |            |          |       |          |                            |
|                  | O.E |               |  |            |          |       |          |                            |
|                  | O.F |               |  |            |          |       |          |                            |
|                  | O.G |               |  |            |          |       |          |                            |
|                  | O.H |               |  |            |          |       |          |                            |
|                  | O.I |               |  |            |          |       |          |                            |
|                  | O.J |               |  |            |          |       |          |                            |
|                  | O.K |               |  |            |          |       |          |                            |

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|--|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
|  | O.L | WO 98/03131     | 01/29/98         | International            | A61C  | 9/00     | N/A                  |
|  | O.M | WO 98/04317     | 02/05/98         | International            | A61N  | 1/30     | N/A                  |
|  | O.N | WO 99/11324     | 03/11/99         | International            | /A61N | 5/06     | N/A                  |
|  | O.O | WO 99/16136     | 04/01/99         | International            | H01L  | 33/00    | N/A                  |
|  | O.P | WO 99/20346     | 4/29/99          | International            | A61N  | 5/06     | N/A                  |
|  | O.Q | WO 99/09071     | 02/25/99         | International            | C08F  | 2/46     | N/A                  |

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|  | O.R |  |
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